ELSEVIER

Colloids and Surfaces
A: Physicochemical and Engineering Aspects 148 (1999) 317–318

COLLOIDS AND SURFACES A

Contents of Volume 148

(*Abstracted/indexed in: Chemical Abstracts; Current Contents; Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS; MEDLINE*)

Vol. 148 Nos. 1–2

Preface 1
Fifty years of electro-optics: An overview of research in the field of macromolecules
C. Houssier (Liège, Belgium) 3
Electro- and magneto-optical phenomena in suspensions and colloids
E.V. Rudakova, A.A. Spartakov, A.A. Trusov and V.V. Vojtylov (St. Petersburg, Russia) 9
Relaxation optic phenomena in polydisperse suspensions and determination of particle sizes using transmitted light parameters
N.G. Khlebtsov, A.G. Melnikov and V.A. Bogatyrev (Saratov, Russia) 17
Polydispersity of macromolecular solutions and colloids in electro-optics
L.K. Babadzanjanz, M.L. Bregman, A.A. Trusov and V.V. Vojtylov (St Petersburg, Russia) 29
Electric surface properties of fractal aggregates—rotational and translational electrokinetics
I.B. Petkanchin and A. Dimitrova (Sofia, Bulgaria) 35
Theory and experiment of reversing-pulse electric birefringence: The case of bentonite suspensions in the absence and presence of cetylpyridinium chloride
K. Yamaoka, V. Peikov, R. Sasai (Higashi-Hiroshima, Japan) and S.P. Stoylov (Sofia, Bulgaria) 43
Electro-fluorescence polarization studies of the interaction of fluorescent dyes with clay minerals in suspensions
S.A. Windsor and M.H. Tinker (Reading, UK) 61
Transient electric birefringence of colloidal particles immersed in shear flow: Part III: A preliminary report on determination of anisotropy of electric polarizability
M. Matsumoto (Tokushima, Japan) 75
Relation of electro-acoustic effects to low frequency anomalies in colloidal electro-optics
M. Stoimenova, A. Alekov (Sofia, Bulgaria) and T. Okubo (Gifu, Japan) 83
Electric field-induced shear waves of colloidal crystals as studied by the electro-optic reflection spectroscopy
T. Okubo, A. Tsuchida, A. Iwata and T. Tanahashi (Gifu, Japan) 87
Computation of the dipole moment of protein molecules using protein databases: Bacteriophage T4 lysozyme and its mutants
S. Takashima (Philadelphia, USA) 95
Concentration dependence of the anisotropy of the electrical polarizability of a model DNA fragment in salt-free aqueous solution studied by Monte Carlo simulations
H. Washizu and K. Kikuchi (Tokyo, Japan) 107
Effect of single-site mutation at Asp38 of bacteriorhodopsin on the electric dipole moments of purple membranes
N. Tuparev, S.G. Taneva, T. Lazarova (Sofia, Bulgaria), E. Padros (Barcelona, Spain), R. Тьth-Boconбdi (Szeged, Hungary) and I.B. Petkanchin (Sofia, Bulgaria) 113
Interaction of protonated DNA with *trans*-dichlorodiammineplatinum(II)
N.A. Kasyanenko, S.A. Prokhorova, E.F. Haya Enriquez, S.S. Sudakova, E.V. Frisman, S.A. Dyachenko, N.A. Smorygo and B.A. Ivin (St. Petersburg, Russia) 121
Transverse magnetic birefringence of poly(tetrafluoroethylene) latex emulsion particles
S.R. Wilson, P.J. Ridler (London, UK) and B.R. Jennings (Reading, UK) 129
Quasi-elastic light scattering with the sinusoidal electric field: New measurement methods and frequency dispersion of the electrophoretic mobility and diffusion constant of polyions
K. Ito and R. Hayakawa (Tokyo, Japan) 135
Low- and high-frequency relaxations in linear polyelectrolyte solutions with different counter-ion species
Y. Nagamine, K. Ito and R. Hayakawa (Tokyo, Japan) 149

Relation between intra-chain conduction and main-chain conformation of conducting polymers in solutions as studied by electric birefringence spectroscopy
T. Shimomura, Y. Kimura, K. Ito and R. Hayakawa (Tokyo, Japan) 155
Effects of the charge density and counterion species on the conductance of ionene solutions
J. Nagaya, A. Minakata (Hamamatsu, Japan) and A. Tanioka (Tokyo, Japan) 163
Expanded ensemble Monte Carlo calculations of free energy for closed, stretched and confined lattice polymers
P.N. Vorontsov-Velyaminov, D.A. Ivanov, S.D. Ivanov and A.V. Broukhno (St. Petersburg, Russia). . . 171
The anisotropic analogues of Kerr and Cotton–Muton effects in the ordered nematic liquid crystals with negative anisotropy
A.Y. Val'kov and M.V. Romanov (St. Petersburg, Russia) 179

Vol. 148 No. 3
The interactions between PC vesicles and the air/water and oil/water interfaces
B. Yang, H. Matsumura and K. Furusawa (Ibaraki, Japan). 191
Coagulation of bitumen with fine silica in model systems
Z.A. Zhou, Z. Xu, J.H. Masliyah and J. Czarnecki (Edmonton, Canada). 199
Volumetric properties of the decylammonium chloride and cesium perfluorooctanoate from density measurements
M.L. González-Martín (Badajoz, Spain), B. Jańczuk (Lublin, Poland), J.A. Méndez-Sierra and J.M. Bruque (Badajoz, Spain) 213
Spreading of a droplet on a solid in the partial wetting and non wetting regime by Monte-Carlo simulation
S. Tan (Paris, France). 223
The role of ζ potential in the colloidal stability of different TiO_2/electrolyte solution interfaces
A. Fernández-Nieves and F.J. de las Nieves (Almería, Spain). 231
Quaternary '*N*-alkylaldonamide-brine-decane-alcohol' systems. Part II: microstructure of the one-phase microemulsion by NMR spectroscopy
F. Bastogne (Brussels, Belgium), B.J. Nagy (Namur, Belgium) and C. David (Brussels, Belgium) 245
Metal complexation with surface-active Kemp's triacid
T. Sengupta, M. Yates and K.D. Papadopoulos (New Orleans, LA, USA) 259
Energetics of water adsorption and immersion on carbons
A.P. Terzyk, P.A. Gauden and G. Rychlicki (Torun, Poland). 271
The effects of external electric field in thermodynamics of formation of dielectric droplet
V.B. Warshavsky and A.K. Shchekin (Petrodvoretz, Russia) 283
Conducting properties of mixed reverse micelles
D. Liu, J. Ma, H. Cheng and Z. Zhao (Beijing, People's Republic of China). 291
Solubilization of short chain phenylalkanoic acids by a cationic surfactant, cetyltrimethylammonium bromide
S. Sakhawat Shah, K. Naeem, S.W.H. Shah and H. Hussain (Islamabad, Pakistan). 299
Structure and properties of bis(2-ethyhexyl)phospheric acid microemulsions with a network structure: Effect of counter-ions
K.-i. Kurumada, S. Nagamine and M. Tanigaki (Kyoto, Japan) 305

Author Index 313
Subject Index. 315
Volume Contents 317